

Abstract

A liquid crystal display device includes a substrate; a gate electrode over the substrate; a first semiconductor layer over the gate electrode; a second semiconductor layer over the first semiconductor layer; a first metal layer on the second semiconductor layer and patterned the same as the second semiconductor layer such that the first metal layer and second semiconductor layer define a separation region; and source and drain electrodes over the first metal layer. The source and drain electrodes are patterned the same as the first metal layer and the second semiconductor layer in the separation region. The source and drain electrodes include a second and a third metal layer.